

Fig. 1

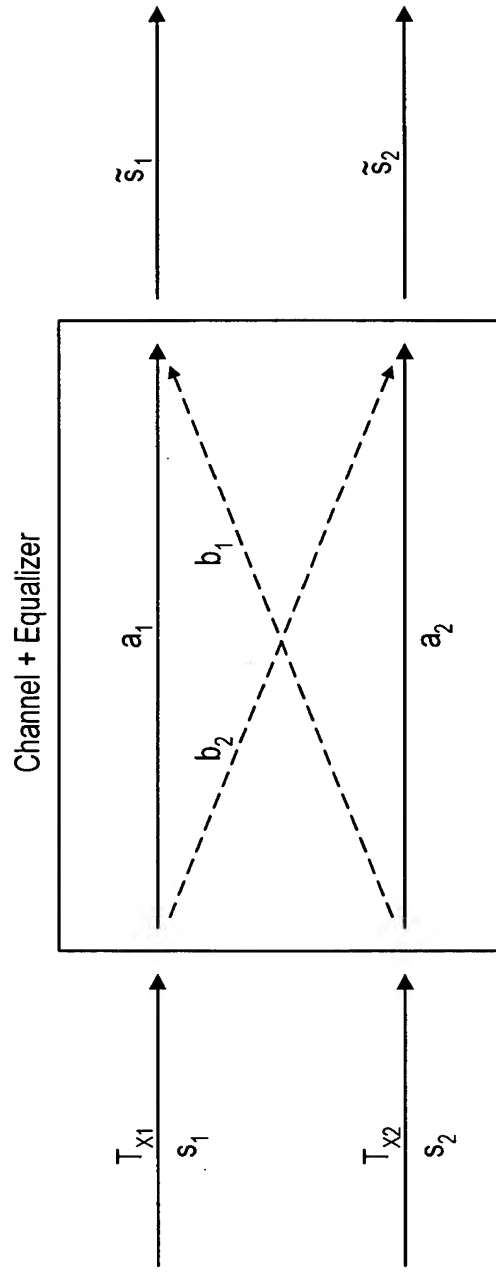


Fig. 3

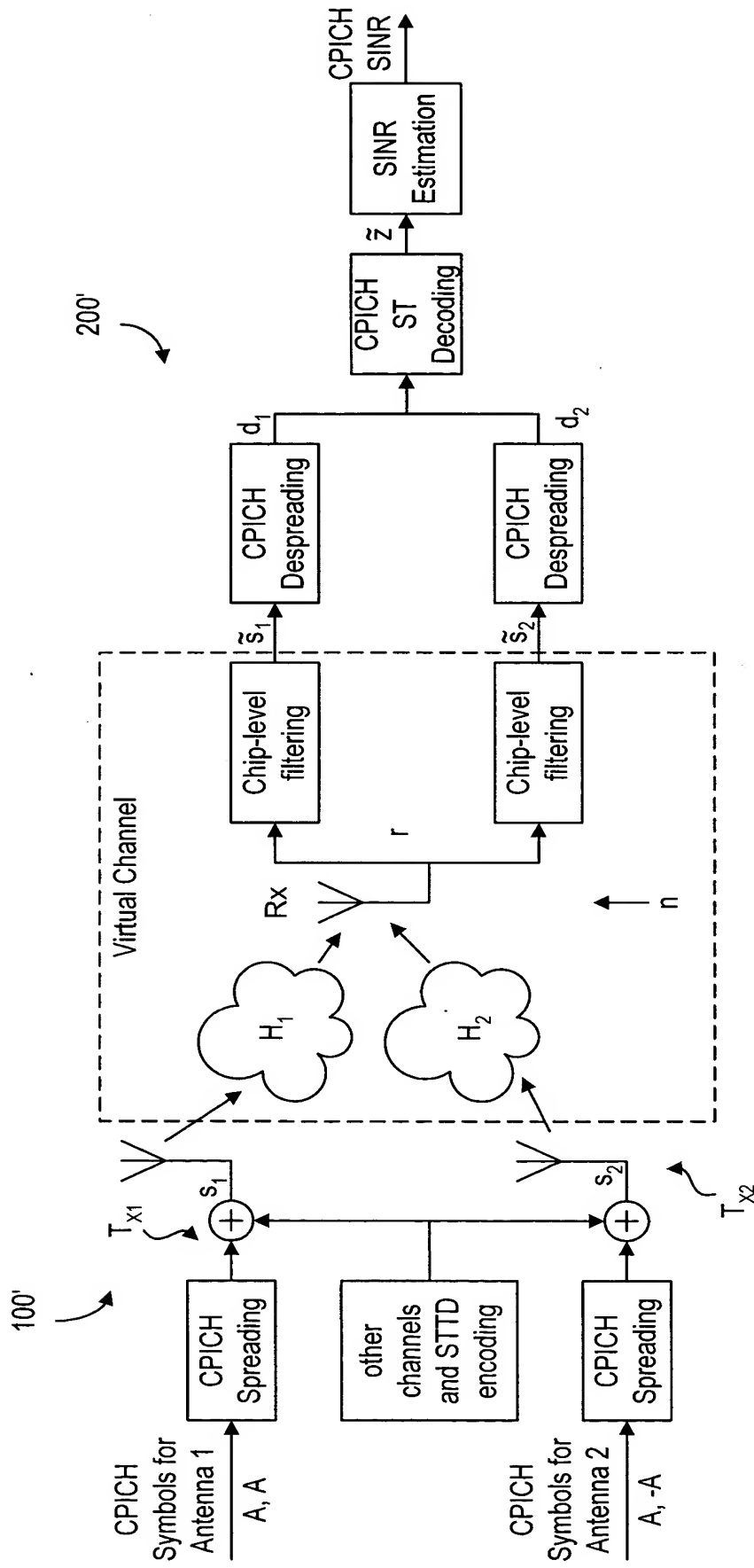


Fig. 2

$$\mathbf{H}_i = \begin{bmatrix} \mathbf{h}'_{N_{\text{Rx}}N_s \times (L'+1)} & \mathbf{0}_{N_{\text{Rx}}N_s \times 1} & \mathbf{0}_{N_{\text{Rx}}N_s \times 1} & \cdots & \mathbf{0}_{N_{\text{Rx}}N_s \times 1} \\ \mathbf{0}_{N_{\text{Rx}}N_s \times 1} & \mathbf{h}'_{N_{\text{Rx}}N_s \times (L'+1)} & \mathbf{0}_{N_{\text{Rx}}N_s \times 1} & \cdots & \mathbf{0}_{N_{\text{Rx}}N_s \times 1} \\ \mathbf{0}_{N_{\text{Rx}}N_s \times 1} & \mathbf{0}_{N_{\text{Rx}}N_s \times 1} & \mathbf{h}'_{N_{\text{Rx}}N_s \times (L'+1)} & \ddots & \vdots \\ \mathbf{0}_{N_{\text{Rx}}N_s \times 1} & \mathbf{0}_{N_{\text{Rx}}N_s \times 1} & \mathbf{0}_{N_{\text{Rx}}N_s \times 1} & \ddots & \mathbf{0}_{N_{\text{Rx}}N_s \times 1} \\ \mathbf{0}_{N_{\text{Rx}}N_s \times 1} & \mathbf{0}_{N_{\text{Rx}}N_s \times 1} & \cdots & \mathbf{0}_{N_{\text{Rx}}N_s \times 1} & \mathbf{h}'_{N_{\text{Rx}}N_s \times (L'+1)} \end{bmatrix}^T$$

FIG. 4

$$\mathbf{h}'_{N_{\text{Rx}}N_s \times (L'+1)} = \begin{bmatrix} h(N_{\text{Rx}}N_s - 1) & h(2N_{\text{Rx}}N_s - 1) & \cdots & h((L'+1)N_{\text{Rx}}N_s - 1) \\ h(N_{\text{Rx}}N_s - 2) & h(2N_{\text{Rx}}N_s - 2) & \cdots & h((L'+1)N_{\text{Rx}}N_s - 2) \\ \vdots & \vdots & \ddots & \vdots \\ h(0) & h(N_{\text{Rx}}N_s) & \cdots & h(L'N_{\text{Rx}}N_s) \end{bmatrix}$$

FIG. 5

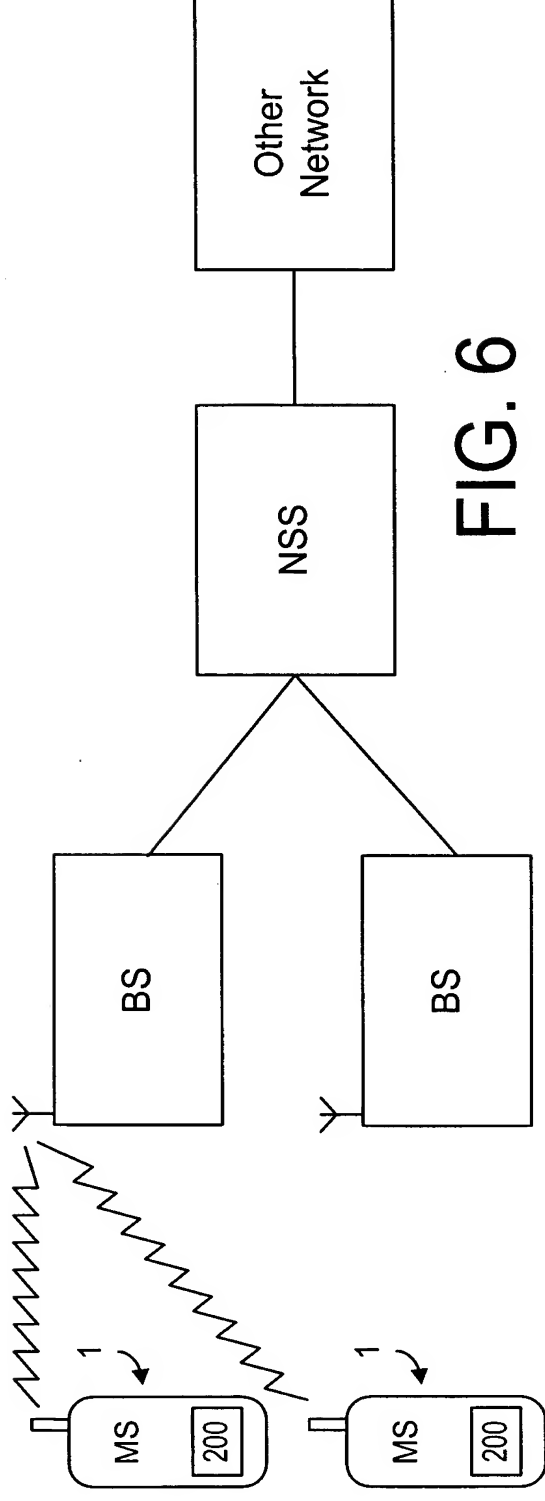


FIG. 6